

200100162

THE UNIVERD SHATES OF ANTERIOR

TO ALL, TO WHOM THESE PRESENTS SHALL, COME;

Syngenta seeds, Inc.

III LECENS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW:

NOW. THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN CLING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY CTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A RRIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RESEARCH.

WHEAT, COMMON

'Coker 9025'

In Testiment Therest, I have hereunto set my hand and caused the seal of the Unit Pariety Intertion Office to be affixed at the City of Washington, D.C. this twelfth day of September, in the year two thousand one.

Attests

Parl M. Jenbourke

Commissioner Plant Variety Protection Office Agricultural Marketing Service Sylvernom_ day of Agriculture U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT (Instructions and information colle	VARIETY PROTECTION ection burden statement on re	CERTIFICATI everse)	Application is n (7 U.S.C. 2421	equired in order to determine). Information is held confid	e if a plant variety ential until certific	r protection certificate is to be issued ate is issued (7 U.S.C. 2426).
1. NAME OF OWNER			Service Control	2. TEMPORARY DESIG	NATION OR	3. VARIETY NAME
Syngenta S	Seeds, Inc.	e (Bible) te	· ·	BL930390	eregae Artori	COKER 9025
4. ADDRESS (Street and No., or R.F.D. No.	., City, State, and ZIP Code, and Coun	try)	* 2	5. TELEPHONE (include	area code)	FOR OFFICIAL USE ONLY
P.O. Box 959				763-593-733	3	PVPO NUMBER
Minneapolis, MN 5 Attn.: John Thor	· · · ·			6. FAX (include area cod	(e)	200100162
	nie _{we}	•		763-542-019	4	FILING DATE
7. IF THE OWNER NAMED IS NOT A "PERS		8. IF INCORPORA		9. DATE OF INCORPOR	ATION 1991	
ORGANIZATION (corporation, partnership Corporation	o, association, etc.)	STATE OF INC. Delawa		1976		4/6/2001
10. NAME AND ADDRESS OF OWNER REF	PRESENTATIVE(S) TO SERVE IN THI	S APPLICATION. (Fir	st person listed will re	ceive all papers)		FILING AND EXAMINATION
John Thorne		ja saan en	n marijan sa 42 ti. Pagamaran sa	rando en la compaña Nova de la compaña de la c	ing sa	FEES: 8 2705.00
Syngenta Seeds, I P.O. Box 949	nc.		en grande de la companya de la comp			8
Washington, IA 52	353-0949					E DATE 4/6/2001
and the second of the second o	terte di Lenguage di Tilono (1). Tilono					CERTIFICATION FEE:
esta en la companya de la companya						° 320
					. 13	DATE (0/19/0/
11. TELEPHONE (Include area code)	12. FAX (Include area code)	13. E-M/	MĽ	; -	14. CROP	KIND (Common Name)
319-653- 2181	319-653-4609	johne	.thorne@sy	ngenta.com	Soft	Red Winter Wheat
18. CHECK APPROPRIATE BOX FOR EACH	ATTACHMENT SUBMITTED (Follow		1			IETY BE SOLD AS A CLASS OF
reverse) a. X Exhibit A. Origin and Breeding	Lintage of the Mariate		CERTIFIED S		_	iety Protection Act)
b. A Exhibit B. Statement of Distinct	•	.⊀		(If "yes", answer items 20 and 21 below)		NO (If "no," go to item 22)
c. X Exhibit C. Objective Description	n of Variety			WNER SPECIFY THAT SEE LIMITED AS TO NUMBER O		X YES NO
d. 🗵 Exhibit D. Additional Description	n of the Variety (Optional)		IF YES, WHIC	H CLASSES? X FOUN	DATION 🗖 F	REGISTERED CERTIFIED
e. X Exhibit E. Statement of the Bas	is of the Owner's Ownership	11 1 1 1	04 DOES THE O	MICH OPCOID/ TIAT THE	014000000	
f. X Voucher Sample (2,500 viable u verification that tissue culture wi repository)	intreated seeds or, for tuber propagate ill be depositied and maintained in an a	ed varieties, approved public		VNER SPECIFY THAT THE O NUMBER OF GENERATI		YES NO
g. X Filing and Examination Fee (\$2, States" (Mail to the Plant Variety	705), made payable to "Treasurer of the Protection Office)	ne United	IF YES, SPEC NUMBER 1, 2,		ATION 1	REGISTERED CERTIFIED
			(If additional ex	planation is necessary, plea	ise use the space	e indicated on the reverse.)
2. HAS THE VARIETY (INCLUDING ANY HA FROM THIS VARIETY BEEN SOLD, DISPI OTHER COUNTRIES?				TY OR ANY COMPONENT GHT (PLANT BREEDER'S		Y PROTECTED BY INTELLECTUAL ENT)?
☑ _{YES} USA Fall 20	000 🗆 NO		☐ _{YES}		₽N	0
IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCUN	OF FIRST SALE, DISPOSITION, TR. MSTANCES. (Please use space indicate)	ANSFER, OR USE sted on reverse.)	IF YES, GIVE O REFERENCE N	OUNTRY, DATE OF FILING IUMBER. (Please use spac	G OR ISSUANCE e indicated on re	AND ASSIGNED verse.)
The owners declare that a viable sample of for a tuber propagated variety a tissue culture.	basic seed of the variety will be furnis	hed with application a	and will be replenished	d upon request in accordance	e with such regu	fations as may be applicable, or
The undersigned owner(s) is(are) the owner and is entitled to protection under the providence.		-			uniform, and sta	ible as required in Section 42,
Owner(s) is(are) informed that false represent						
IGNATURE OF OWNER	11		SIGNATURE OF O	WNER		· · · · · · · · · · · · · · · · · · ·
John Wall	1 home		ı	1 (O ₁ ,	e megaga in	
AME (Please print or type)			NAME (Please prin	t or type)		en e
John C. Tl	rorne	in a la est fa de ej de la la est de la la est de l La est de la e				y eddi General Company

CAPACITY OR TITLE

DATE

3-20-01

DATE

COKER 9025

Exhibit A: Origin and Breeding History of the Variety

COKER 9025 is a soft red winter wheat developed by Syngenta Seeds at Bay, Arkansas. It was derived from a cross made in 1987, AL850046/Ck 86-23. Both lines are unreleased material owned by Syngenta Seeds. The pedigree of AL850046 is COKER 762/II73-2909. Ck 86-23 has a pedigree of COKER 65-20*4//Wichita*7/Transfer/3/R-Blueboy sel./4/COKER 68-15*3//C.I. 13836/Chancellor*8. A bulk breeding system was used to develop COKER 9025; an F5 selected head row was bulked as an F6. Advancement was based on disease resistance and agronomic characteristics. The line was identified as BL930390 and preliminary yield testing started at F7 stage in 1993-94 growing season. Further advanced yield testing and increase continued until release in 2000 as COKER 9025. This advancement was based on yield, disease resistance and agronomic traits. See Table 1 for development procedure.

Table 1: Development of COKER 9025

Season	Generation	Activity
1987		Cross
1987-1988	F1	Seed increased in greenhouse
1988-1989	F2	Bulk population grown in field, advancement based on leaf rust resistance and agronomic traits.
1989-90	F3	Bulk population, advancement based on leaf rust resistance and agronomic traits.
1990-91	F4	Bulk population, selected 100 heads, harvest based on leaf rust resistance, height and maturity.
1991-92	F5	Head row nursery, selection based on leaf rust resistance and height.
1992-93	F6	Observation nursery #2681, selected and advanced based on height, maturity, leaf rust resistance and growth habit.
1993-94	F7	Preliminary yield trials, assigned line number BL930390. Advancement based on yield, height and maturity.
1994-95	F8	Yield testing in advanced company trials, small increase blocks at Bay, AR. Advancement based on yield, leaf rust resistance and stem rust resistance.

COKER 9025

Exhibit A: Origin and Breeding History of the Variety

Continued

Table 1: Development of COKER 9025

Season	Generation	Activity
1995-96	F9	Yield testing in elite company trial, small increase with nested head rows; advancement based a yield, leaf rust resistance and height.
1996-97	F10	Yield testing in elite company trials, small increase with nested plots for purity. Advancement based on yield, height and leaf rust resistance.
1997-98	F11	Yield testing on elite company trial, large pre-breeder increase. Testing in Uniform Eastern Soft Red Winter Wheat Nursery and Uniform Southern Soft Red Winter Wheat Nursery. Advancement based on yield, leaf rust resistance and height.
1998-99	F12	Continued elite testing in company trials, Uniform Eastern Soft Red Winter Wheat Nursery and Uniform Southern Soft Red Winter Wheat Nursery with breeder seed increase, advancement based on yield, winter hardiness, leaf rust and soil borne mosaic virus resistance.
1999-2000	F13	Continued elite testing in company trials and limited state trails, foundation seed produced and released as COKER 9025. Release based on yield, leaf rust resistance and winter hardiness.
2000-2001	F14	Registered seed sold to TGN Certified Seed Growers.

COKER 9025 is an F7 based selection using the bulk breeding method. The variety has been tested for 6 years with 5 years of increase. COKER 9025 is stable and uniform for yield, disease resistance and height. Breeder seed was developed by bulking seed from head row generated increase strips that had been maintained separately for three (F9, F10, and F11) generations of increase for purity, uniformity, and stability comparisons. Variants may include one or more of the following in any combination taller, awned, bronze or later type, which may be expressed up to 1%.

COKER 9025

Exhibit B: Novelty statement

COKER 9025 most closely resembles COKER 9105. However COKER 9025 is 7 days later and has a red coleoptile color where COKER 9105 has a white coleoptile color. The flag leaf of COKER 9025 at booting is erect where COKER 9105 has a flag leaf that is recurved, Table 2.

Table 2: Distinguishing Characteristics

	1998-99 Variety	1999-2000	Coleoptile	Flag Leaf at
	Addendum	Preliminary	Color	Booting
	Heading Date*	Line 29		
	(from April 1)	Heading Date*		
		(from April 1)		
COKER 9025	23	19	Red	Erect
COKER 9105	16	12	White	Recurved
# Entries	75	25	,	
# Reps	2	2		
Test Mean	18	16		
LSD (0.05)	2	1		
CV%	1	1		

^{*}Heading date taken at Bay, AR both seasons. Trials were Randomized Complete Block design with an ANOVA.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE **BELTSVILLE, MD 20705**

EXHIBIT C (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (Triticum spp.)

					-
NAME OF APPLICANT(S)	-			FOR OFFICIAL USE ONLY	
Syngenta Seed	s, inc.	•		PVPO NUMBER	
ADDRESS (Street and No. or RD N	la., City, State, and Tip Code)			20010010	<u>, 2</u>
P. O. Box 959				VARIETY NAME	•
Minneapolis, 1	MN 55440			'Coker 90	25'
Attn: John T	horne			TEMPORARY OR EXPERIMENT	AL DESIGNATION
		- 			
Place a zero in the first box a minimum of 100 plants. (may be used to determine pl	TRUCTIONS CAREFULLY: P (e.g. 0 9 9 or 0 9) whe Comparative data should be deter lant colors; designate system used for your variety; lack of response	n number is either 99 or less or mined from varieties entered in l:	r 9 or less respectively. In the same trial. Royal I	Data for quantitative plant cha	racters should be based on
1. KIND:					
	1.0	2-Dayman	3=Club	4-Other	(SPECIFY):
1	1=Common	2=Durum	3-Clab	4-Offici	(SI BCH I):
				·	
2. VERNALIZATIO	N:				
2	1=Spring	2=Winter	3=Other (SI	PECIFY):	
3. COLEOPTILE AI	NTHOCYANIN:				•
2	1=Absent	2=Present			
4. JUVENILE PLAN	IT GROWTH:				
2	1=Prostrate	2=Semi-erect	3=Erect		
5. PLANT COLOR	(boot stage): Munsel	l Color Chart 7.5	GY 4/4		
2	1 = Yellow-Green	2 = Green	3 = Blue-Gre	een	
6. FLAG LEAF (boo	ot stage):		W		•
1	1 = Erect	2 = Recurved		1 = Not Twisted	2 = Twisted
7. EAR EMERGENC	CE:				
	Number of Days Earl	ier Than			*
	•				
0 4	Number of Days Late	r Than COKER 9474			*
<u>L-LL-1</u>					

* , *	Z0010016Z
8. ANTHER COLOR:	
1 = Yellow 2 = Purple	
9. PLANT HEIGHT (from soil to top of head, excluding aw	ns): 92 cm
cm Taller Than COKER 9543	•
0 7 em Shorter Than Patterson	•
	* Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial
10. STEM:	The state of the s
A. ANTHOCYANIN	D. INTERNODE (SPECIFY NUMBER)
1= Absent 2=Present	1 Hollow 2=Semi-solid 3=Solid
B. WAXY BLOOM	E. PEDUNCLE
2 1=Absent 2=Present	2 1=Absent 2=Present
C. HAIRINESS (last internode of rachis)	10 cm Length From base of head to top of flag leaf
2 1=Absent 2=Present	
11. HEAD (at Maturity):	
A. DENSITY	C. CURVATURE
2 1=Lax 2=Middense 3= Dense	3 = Recurved
B. SHAPE	D. AWNEDNESS
1 = Tapering 2= Strap 3 = Clavate 4 = Other (SPECIFY):	2 = Apically Awnletted 3 = Awnletted 4 = Awned
12. GLUMES (at Maturity):	·
A. COLOR	C. BEAK
Munsell Color Chart 2.5Y 8/4 2 1=White 2=Tan	
3 = Other (SPECIFY) :	3 = Acuminate 2 = Acute
	e e e e e e e e e e e e e e e e e e e
B. SHOULDER	D. LENGTH
$ \begin{array}{ccc} 1 &= \text{Wanting} & 2 &= \text{Oblique} \\ 3 &= \text{Rounded} & 4 &= \text{Square} \end{array} $	1 = Short 2 = Medium (ca. 7mm) (ca. 8mm)

6 = Apiculate

5 = Elevated

(ca. 7mm)

3 = Long (ca. 9mm)

(ca. 8mm)

12. GLUMES (at Maturity) Continued:	200100162
E. WIDTH	
1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5n 3 = Wide (ca. 4mm)	ım)
13. SEED:	
A. SHAPE	C. BRUSH
1 = Ovate 2 = Oval 3 = Elliptical	3 1=Short 2=Medium 3=Long
	/ 1 = Not Collared 2 = Collared
B. CHEEK	D. CREASE
1=Rounded 2=Angular	1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel
	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel
E. Color	G. PHENOL REACTION (see instructions):
1=White 2=Amber 3=Red 4=OTHER (Specify)munsell color chart 7.5 YR 7/6	1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black
F. TEXTURE	·
2 1=Hard 2=Soft	
14. DISEASE: (0=Not Tested; 1=Susceptible; 2=Resis	tant; 3=Intermediate; 4=Tolerant)
PLEASE INDICATE THE SPECI	FIC RACE OR STRAIN TESTED
Stem Rust (Puccinia graminis f. sp. tritici) TPMK, RTRQ, RTHJ, RHMS, QKCS	Leaf Rust (Puccinia recondita f. sp. tritici)
Stripe Rust (Puccinia striiformis)	BLBB, MCRQ, TLGG, MDGL Loose Smut (Ustilago tritici)
Tan Spot (Pyrenophora tritici-repentis)	Flag Smut (Urocystis agropyri)
O Halo Spot (Selenophoma donacis)	O Common Bunt (Tilletia tritici or T. laevis)
Septoria nodorum (Glume Blotch)	Dwarf Bunt (Tilletia controversa)
Septoria avenae (Speckled Leaf Disease)	O Karnal Bunt (Tilletia indica)
Septoria tritici (Speckled Leaf Blotch)	Powdery Mildew (Erysiphe graminis f. sp. tritici)
Scab (Fusarium spp.)	O "Snow Molds"
*Races prevalent under field conditions during 1	999-2000 growing season in the S East. & M South
S&T-470-6 (1-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a.	Replaces LPGS-470-6 (3-79), which is obsolete. Page 3 of 4

24		4	·
14.	Disease (Continued) (0=Not Tested; 1=Suscept	ible; 2	=Resistant; 3=Intermediate; 4=Tolerant)
	PLEASE INDICATE T	HE SPEC	CIFIC RACE OR STRAIN TESTED
	"Black Point" (Kernel Smudge)	0	Common Root Rot (Fusarium, Cochliobolus and Bipolaris spp.)
	Barley Yellow Dwarf Virus (BYDV)	0	Rhizoctonia Root Rot (Rhizoctonia solani)
. •	O Soilborne Mosaic Virus (SBMV)	0	Black Chaff (Xanthomonas campestris pv. translucens)
	Wheat Yellow (Spindle Streak) Mosaic Virus Strain isolated from Syngenta Research farm located near Bay, AF	0 R.	Bacterial Leaf Blight (Pseudomonas syringae pv. syringae)
	0 Wheat Streak Mosaic Virus (WSMV)		Other (SPECIFY)
	Other (SPECIFY)		Other (SPECIFY)
	Other (SPECIFY)		Other (SPECIFY)
	Other (SPECIFY)		Other (SPECIFY)
15. IN	SECT: (0=Not Tested; 1=Susceptible; 2=Resis	tant; 3	3=Intermediate; 4=Tolerant)
	PLEASE SPECIFY BI	(OTYPE	(where needed)
	Hessian Fly (Mayetiola destructor)		Other (SPECIFY)
No. 4	O Stem Sawfly (Cephus spp.)		Other (SPECIFY)
	Cereal Leaf Beetle (Oulema melanopa)		Other (SPECIFY)
•	Russian Aphid (Diuraphis noxia		Other (SPECIFY)
	Greenbug (Schizaphis graminum)		Other (SPECIFY)
· .	O Aphids		Other (SPECIFY)
16. AD	DITIONAL INFORMATION ON ANY ITEM ABOVE, O	R GENE	RAL COMMENTS

Table 3: COKER 9025

Exhibit D: Additional Description

Baking and Milling Quality Syngenta Seeds Inc. 2001

00 100 100 1.5 100.9		Micro	Soff	Flour	Flour	Micro	Cookie
kory) 100 100 kory) 99.5 100.9	Willing baking combined	ed I. Weight	Equival.	Yield	Protein	AWRC	Dia.
kory) 100 100 100 100 99.5 100.9							
99.5 100.9		61.1	59.8	71.3	7.45	55.62	
	99.5 100.9 99.5		66.2	70.5	6.55	57.64	18.31

1998 Commercial Elite									
Standard (Pioneer 2552)	100	100	100	58.8	61.8	73.8	9.56	54	17.93
COKER 9025	88.1	88.2	88.1	59.9	62.9	70.3	8.72	56.9	17.69

1999 Commercial Elite									
Standard (COKER 9543)	100	100	100	61.4	58.2	72	8.39	53.63	18.27
COKER 9025	103.3	6'26	6'26	60.4	64.2	72	8.62	55.7	18.32

USDA Soft Wheat Quality Lab, Wooster, OH. Coker 9025 has been rated as satisfactory. Scores are adjusted Commercial Elite is an in house Syngenta Seeds yield test. All quality evaluations have been conducted by the to a standard known to exhibit excellent quality.

Table 4: COKER 9025

Exhibit D: Additional Description

Yield and Agronomic Data:

	Yield (Bu	/Ac)	Test Weight	Head Date (4/1)	Height in.	Lodging (1-9)	Growth H	abit	¡Freeze Da	mage
	3 Year	4 Year	1 Year	3 Year	3 Year	3 Year	2000	1999	l 1996	1998
COKER 9025	63	66	56.4	4/24	36	4	2	2	4	4
COKER 9663	69	73	58.5	4/18	40	3	3	3	5	3
COKER 9543	65	67	56.8	4/19	.35	3	3	3	3	4
COKER 9474	63	65	59.9	4/20	37	2	2	2	3	2
JACKSON	66	70	58.1	4/21	37	4	4	3	5	4
PATTERSON	63	-	58.2	4/22	39	3	3	2	<u>.</u>	3
TEST MEAN	65	68	57.9	4/20	36	3	3	3	5	4
TRIALS WITH DATA	30	36	6	6	23	22	1	1	9	5
LSD (0.05)	3.4	3.4	1.2	2	2	0.5	0.7	1	1	1
CV %	10.9	10.5	1	1	14	33.2	34.7	13.2	17	18.6

Yield: 3 Year--1998, 1999, 2000 4 Year--1997, 1998, 1999, 2000

Northern locations in IL, MO, NC, VA, TN, KY, PA,

Teat Weight (lb/bu): Average test weight taken from Union City, TN; Dewitt, AR; Whitehall, AR; Plymouth, NC; Warsaw, VA; and Plains, GA; 2000

Head Date: Average date after April 1; 1998, 1999, 2000. Northern locations

Height: Averaged over 1998, 1999, 2000 Northern locations.

Lodging: Averaged over 3 years 1998, 1999, 2000 Northern locations. 1 = none.

Growth Habit: Bay, AR 1 = Prostrate 5 = Erect

Freeze Damage: 1 = none 9 = severe

1996 - Henderson, KY; Columbia, MO(2); Bernie, MO; Union City, TN; Bay, AR; Whitehall, AR; Macon, MS; Plymouth, NC

1998 - Macon, MS; Bay, AR; Union City, TN; Bernie, MO; Henderson, KY

Table 5: COKER 9025

Exhibit D: Additional Description

Leaf Rust

	1999			2000		
	Bay, AR	Plains, GA	Plymouth, NC		Plains, Ga	Plymouth, NC
COKER 9025	2	4	5	2	3	3
			-		<u> </u>	<u> </u>
COKER 9663	1	2	2	2	7	1
COKER 9543	3	9	7	4	6	4
COKER 9474	2	3	4	1	3	1
JACKSON	5	9	8	7	7	8
PATTERSON	4	7	8	6	7	6
TEST MEAN	2	5	5	3	4	4
LSD (0.05)	1.1	*	2	1.5	2.9	1.6
CV %	29.2		20.3	29.6	33.7	20.8

Scale (1 - 9) 1 = none

* 1 rep

Table 6: COKER 9025

Exhibit D: Additional Description

Powdery Mildew

n.	1999			2000		
··	Winterville, NC	Kinston, NC	Warsaw, VA	Winterville, NC	Kinston, NC	Warsaw, VA
COKER 9025	2	4	2	4		
	-			4	4	5
COKER 9663	3	6	2	3	4	6
COKER 9543	2	5	2	2	3	5
COKER 9474	1	5	3	3	4	6
JACKSON	1	7	2	3	5	4
PATTERSON	5	5	3	3	4	7
TEST MEAN	2	5	3	3	3	6
.SD (0.05)	2	1.3	1.3	2	1.2	1.6
CV %	63.6	13.1	33.2	26.6	19.5	28.7

Scale (1 - 9) 1 = none

Table 7: COKER 9025

Exhibit D: Additional Description

Diseases

-	Septoria tr	ritici			WSSMV	•
	1998		1999		1997	1999
	Bay, AR	Whitehall, AR	Bay, AR	Whitehall, AR	Bay, AR	Bay, AR
COKER 9025	6	6	5	6	2	3
COKER 9663	2	4	3	2	3	5
COKER 9543	3	6	4	5	2	2
COKER 9474	3	5	3	3	4	5
JACKSON	4	6	4	5	6	7
PATTERSON	3	6	3	5	-	4
TEST MEAN	3	5	1		1	
LSD (0.05)	1.4	1.4	4	1.5	2.2	0.9
CV %	25.1	16.3	15.9	20.9	326	13
Scale (1 - 9) 1	= none					

WSSMV = Wheat Spindle Streak Mosaic Virus identified by Dr. Gene Milus University of Arkansas pathologist.

Table 8: COKER 9025

Exhibit D: Additional Description

Hessian Fly

	1999		2000	
		Biotypes		
_	E	L	0	
· 				
COKER 9025	0/13	0/16	0/17	
COKER 9663	7/6	0/18	0/18	
COKER 9543	12/1	0/14	0/18	
COKER 9474	10/2	0/20	0/20	

R/S Resistant vs Susceptible.

Screening done by USDA-ARS, Crop Production and Pest Control Research Unit, West Lafayette, IN

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF APPLICANT(S) Syngenta Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER BL930390	3. VARIETY NAME COKER 9025		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. Box 959 Minneapolis, MN 55440 Attn.: John Thorne	5. TELEPHONE (include area code) 763-593-7333 7. PVPO NUMBER	6. FAX (include area code) 763-542-0194		
8. Does the applicant own all rights to the variety? Mark an "X" in appropri	ZCO(CO)	62 ▼ YES □ NO		
9. Is the applicant (individual or company) a U.S. national or U.S. based collif no, give name of country 10. Is the applicant the original owner? XX YES N	X			
a. If original rights to variety were owned by individual(s), is (are) the original rights to variety were owned by a company(ies), is(are) the original rights to variety were owned by a company(ies), is(are) the original rights to variety were owned by a company(ies), is(are) the original rights to variety were owned by a company(ies), is(are) the original rights to variety were owned by a company(ies), is(are) the original rights to variety were owned by a company(ies), is(are) the original rights to variety were owned by a company(ies), is (are) the original rights to variety were owned by a company(ies), is (are) the original rights to variety were owned by a company(ies), is (are) the original rights to variety were owned by a company(ies), is (are) the original rights to variety were owned by a company(ies), is (are) the original rights to variety were owned by a company(ies), is (are) the original rights to variety were owned by a company(ies), is (are) the original rights to variety were owned by a company(ies), is (are) the original rights to variety were owned by a company(ies), is (are) the original rights to variety were owned by a company (ies), is (are) the original rights to variety were owned by a company (ies), is (are) the original rights to variety were owned by a company (ies), is (are) the original rights (ies).	O If no, give name of country priginal owner(s) a U.S. based company	·		
11. Additional explanation on ownership (if needed, use reverse for extra spanning)	ace):			
lant variety protection can be afforded only to owners (not licensees) who meet one If the rights to the variety are owned by the original breeder, that person must be	•			

- person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to compete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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